the adult. Also, vitamin D regulates the level of these minerals in the blood by diverting them to the skeleton where they are deposited (Grollman, p. 286). Since the cement depositing cells of the tooth sac are active at this time, it is reasonable to conclude that they, like the osteoblasts, would respond to the stimulus of vitamin D to help maintain the level and ratio of these minerals in the body fluids. Consequently, it would appear that the deposition of a large amount of cement on the teeth of the Florida Miocene horses was the result of a high mineral intake and a temporary endocrine imbalance brought on by the maturation of the gonads. Also, the amount of cement deposited would be a function of the degree of endocrine imbalance.

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# ZOOLOGY.—Marine Ostracoda from Tortugas, Florida. Willis L. Tressler, University of Maryland. (Communicated by Waldo L. Schmitt.)

The marine ostracods of the eastern North American coast are still imperfectly known. Brady and Norman (1889) reported on ostracods of the North Atlantic, and a few years before this, Dr. Brady (1870) described a few from the Gulf of St. Lawrence. Cushman (1906) reported on 26 species from Vineyard Sound and Woods Hole. Blake (1929, 1933) added considerably to our knowledge of American marine Ostracoda in his report on the ostracods of the Mount Desert region. Tressler (1940) listed eight species from the sand beaches at Beaufort, N. C., and Tressler and Smith (1948) made an ecological study of the ostracods of the Solomons Island, Md., region.

The present paper deals with 13 species of marine ostracods, 7 of which are believed to be new, from the Dry Tortugas, Fla. The material was largely obtained by Dr. Waldo L. Schmitt, U. S. National Museum, from debris secured in the course of otter trawl hauls and from the cracking up of corals and rocks, seaweed washings, and rock scrapings. Only two species were otherwise collected; these were from the alimentary tracts of fish dissected by Dr. Harold W. Manter, of the University of Nebraska. The

distribution of the species in the Tortugas area is shown in Table 1.

The slides of the dissected and figured specimens, together with the alcoholic material, have been deposited in the U. S. National Museum as type specimens.

Suborder Myodocopa

Family CYPRIDINIDAE

Subfamily CYPRIDININAE

#### Genus Cypridina Milne-Edwards

Valves moderately tumid of more or less oval shape with smooth surface. Frontal incisure deep and occurring nearly in the middle of the anterior border. Eye well developed in both sexes, but larger in the male. Frontal tentacle short, clavate. Anterior antenna 7-articulate and similar in both sexes. In most cases the posterior antenna has an endopodite that is not transformed in the male. Furca with at most 12 claws.

## Cypridina squamosa G. W. Müller

Fig. 21

Cypridina squamosa G. W. Müller, F. Fl. Neapel 21: 207. 1894.

Specific characters.—Female: Shell rather short, height about two-thirds the length and higher in the posterior half. Dorsal margin of valve strongly rounded, ventral border less so.

<sup>&</sup>lt;sup>1</sup> A contribution from the Zoology Department, University of Maryland, College Park, and the Chesapeake Biological Laboratory, Solomons, Md. Received May 5, 1949.

Posterior end broadly rounded, lower portion with a noticeable flange. Surface of shell covered with shallow pits. Furca with seven claws. Length reaching 3.3 mm. in the female and 2.6 mm. in the male. Length of Tortugas female specimen 1.71 mm.; height 1.06 mm.

Occurrence.—Two females from haul of 30-foot otter trawl in 10–11 fathoms along the east side of White Shoal, August 9, 1930 (stations 49–30); one female from debris of broken-up Porites clump brought up by aid of diving hood, west side of Loggerhead Key, July 26, 1930 (station 33-30) (depth not given; may have been 12–15 feet); one female from tow of 30-foot otter trawl in 10–11 fathoms in channel east and south of Loggerhead Key, August 8, 1930 (station 47-30); one female from the debris of cracked-up rock from west side of Loggerhead Key, June 26, 1931 (no station number).

Distribution.—Also known from the Gulf of Naples.

# Cypridina flatus, n. sp. Figs. 15-16

Specific characters.—Female: Valves rather flattened dorsoventrally, dorsal border almost

straight, ventral border well rounded. Frontal incisure deep and narrow with a well-defined striated lamella below. Posterior border of the shell with a marked flange on the lower half. Surface of shell smooth and polished. Antennae and other appendages typical of the genus. Furca with nine claws. Length 2.44 mm.; height 1.50 mm.

Male:-Unknown.

Occurrence.—One female believed to have been taken with 30-foot otter trawl from a depth of 580–600 fathoms about 40 miles south of No. 2 Red Channel Buoy, July 30, 1932 (? station 65-32), holotype (slide), U.S.N.M. no. 88845.

#### Subfamily ASTEROPINAE

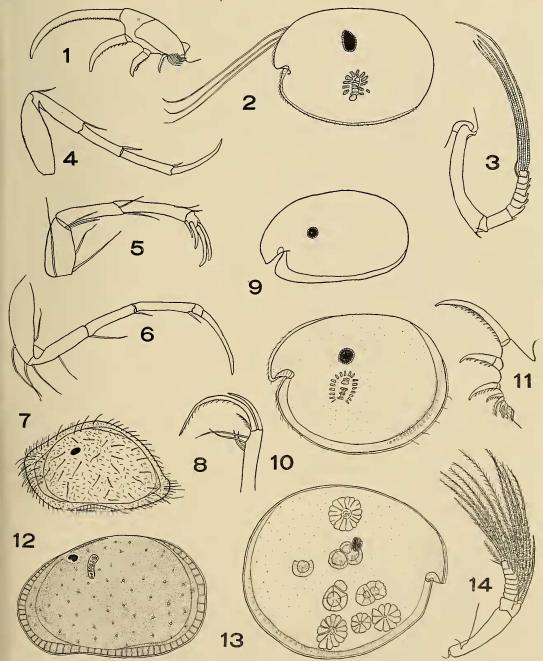
#### Genus Asterope Philippi

Shell more or less oblong in shape, of firm consistency with prominent frontal incisure placed in the lower half of the anterior margin. Sexual dimorphism strongly marked in this genus. Eyes well developed in both sexes. Anterior antenna 6-articulated and similar to that of other members of the Cypridinidae. Furca with at

TABLE 1.—DISTRIBUTION OF SPECIES

West side Loggerhead Key East side Loggerhead Key West side Loggerhead Key 13 miles south of No. 2 Red Buoy Channel east and south of Loggerhead Key	July 24, 1930  July 24, 1930  July 26, 1930  July 29, 1930  August 8, 1930	12-15 feet  Rocks at low tide 12-15 feet (?)  From stomach of fish, 80-100 fathoms 10-11 fathoms	Asterope elliptica Nesidea cushmani Cyclasterope tripla Cypridina squamosa Nesidea cushmani Asterope elliptica Conchoecia atlantica Cypridina squamosa Macrocypris africana Pontocypris intermedia
West side Loggerhead Key  13 miles south of No. 2 Red Buoy Channel east and south of Log- gerhead Key	July 26, 1930 July 29, 1930	12-15 feet (?)  From stomach of fish, 80-100 fathoms	Cyclasterope tripla Cypridina squamosa Nesidea cushmani Asterope elliptica Conchoecia atlantica Cypridina squamosa Macrocypris africana
West side Loggerhead Key  13 miles south of No. 2 Red Buoy Channel east and south of Log- gerhead Key	July 26, 1930 July 29, 1930	12-15 feet (?)  From stomach of fish, 80-100 fathoms	Cypridina squamosa Nesidea cushmani Asterope elliptica Conchoecia atlantica Cypridina squamosa Macrocypris africana
13 miles south of No. 2 Red Buoy Channel east and south of Log- gerhead Key	July 29, 1930	From stomach of fish, 80-100 fathoms	Nesidea cushmani Asterope elliptica Conchoecia atlantica Cypridina squamosa Macrocypris africana
Buoy Channel east and south of Log- gerhead Key		80-100 fathoms	Asterope elliptica Conchoecia atlantica Cypridina squamosa Macrocypris africana
Buoy Channel east and south of Log- gerhead Key		80-100 fathoms	Conchoecia atlantica  Cypridina squamosa  Macrocypris africana
Channel east and south of Log- gerhead Key	August 8, 1930	10-11 fathoms	Macrocypris africana
1		03	Pantagunyie intermedia
The second secon			Nesidea cushmani
abannal anot and couth	1	10-11 fathoms	Nesidea cushmani Nesidea cushmani
Lower channel east and south of Loggerhead Key	August 9, 1930		
West side of White Shoal	August 9, 1930	10-11 fathoms	Cypridina squamosa Cyclasterope sphaerica
Southwest channel, north of	June 26, 1931	9-10 fathoms	Cyclasterope sphaerica Cyclasterope tripla
South side of channel through	June 30, 1931	Porites clumps at low tide	Asterope elliptica
Bird Key reef on miles south of No. 2 Red Buoy	July 30, 1932	580-600 fathoms	Cypridina flatus
Loggerhead Key West side	June 26, 1931	Cracked-up rock	Cypridina squamosa Asterope elliptica Asterope mariae Cyclasterope sphacrica
Off Loggerhead Key	June 25, 1931	From stomach of fish,	Macrocypris schmitti Xestoleberis punctata Cyclasterope priacanthus
Sc Sc 10	outhwest channel, north of No. 2 Red Buoy outh side of channel through Bird Key reef o miles south of No. 2 Red Buoy ey West side	outhwest channel, north of No. 2 Red Buoy buth side of channel through Bird Key reef o miles south of No. 2 Red Buoy ley West side  June 26, 1931  June 30, 1931  July 30, 1932  July 30, 1932  July 30, 1932	outhwest channel, north of No. 2 Red Buoy outh side of channel through Bird Key reef o miles south of No. 2 Red Buoy ey West side  June 26, 1931  9-10 fathoms  Porites clumps at low tide 580-600 fathoms  Cracked-up rock

least five claws. This genus is strikingly set off presence of seven well-developed gills in the from all the other known ostracods by the posterior part of the body.



Figs. 1-3.—Cyclastcrope priacanthus, n. sp.: 1, Furca, female; 2, left valve, female; 3, first antenna, female. Figs. 4-8.—Nesidea cushmani, n. sp.: 4, Thoracie leg, female; 5, second antenna, female; 6, thoracie leg, female; 7, left valve, female; 8, furca, female. Fig. 9.—Asterope elliptica Philippi, left valve, female. Figs. 10, 11.—Cyclasterope tripla, n. sp.: 10, Left valve, female; 11, furca, female. Fig. 12.—Xestoleberis punctata, n. sp.: Left valve, female. Figs. 13, 14.—Cyclasterope sphaerica, n. sp.: 13, Right valve, female; 14, first antenna, female.

#### Asterope mariae (Baird)

Fig. 22

Cypridina mariae W. Baird, Proc. Zool. Soc. London 18: 257. 1850.

Cylindoleberis mariae G. S. Brady, Trans. Linn. Soc. London 26: 465. 1868.

Asterope oblonga C. Claus, Crust. Syst.: 92. 1876. Cylindoleberis oblonga G. W. Müller, F. Fl. Neapel 21: 219. 1894.

Asterope mariae G. O. Sars, Crustacea of Norway 9: Ostracoda: 17. 1928.

Specific characters.—Female: Shell very narrow and flattened dorsoventrally. Height barely half the length. Both dorsal and ventral shell margins only very slightly curved; both extremities rounded and about equal. Frontal incisure of valves rather deep and narrow, occurring well below the middle of the extremity. Surface of the shell smooth and polished, completely devoid of hairs. Eyes well developed. Last pair of legs provided with only 12 cleaning spines. Caudal furca with 10 claws, the proximal ones very small. Length of adult female reaching 2.20 mm. Length of Tortugas specimen 1.43 mm.; height 0.67 mm.

Male: Of very different external appearance from female. Shell of irregular, oblong shape, being noticeably higher in the anterior portion than posteriorly. Valves thin and pellucid with a few hairs.

Occurrence.—Two immature females found in the debris of a cracked-up rock from the west side of Loggerhead Key, June 26, 1931 (no station number).

Distribution.—West coast of Sweden, British Isles, coast of France, Mediterranean, Norwegian coast, Vineyard Sound.

#### Asterope elliptica Philippi

Fig. 9

Asterope elliptica A. Philippi, Arch. Naturg. 61: 188. 1840.

Asterope elliptica G. O. Sars, Arch. Naturv. Kristian. 12: 200. 1887.

Specific characters.—Female: Shape of shell similar to A. mariae but shorter with definitely rounded dorsal and ventral borders. Height of shell about half the length. The distal border of the fourth segment of the anterior antenna, which is fused with the third segment, is strongly bent, the ventral border being only half as long as the breadth of the segment. The claws at the end of the anterior antenna are longer than the

dorsal border of the third to the sixth segments. The exopodite of the mandibular palp is longer than one-half the second segment of the palp. Furca similar to A. mariae. Length of female reaching 1.44 mm. Length of Tortugas female 1.09 mm.; height 0.68 mm.

Male: Shell not as high as that of the female and reaching about six-thirteenths of the body length. Anterior portion somewhat broader than in the female. Dorsal border of the shell abnormally rounded owing to a well-defined corner at the posterior border.

Occurrence.—Two females were obtained from rock fragments brought up with aid of diving hood west side of Loggerhead Key, in 12–15 feet of water, July 24, 1930 (station 30–30); one female from debris of broken up clump of Porites also brought up from the west side of Loggerhead Key with aid of diving hood, from probably the same depth as the preceding, July 26, 1930 (station 33-30); two females, also from the debris of broken up Porites clumps picked up at low tide on the south side of the channel through Bird Key reef, June 30, 1931 (station 16-31); one female from the debris of cracked-up rock from west side of Loggerhead Key, June 26, 1931 (no station number).

Distribution.—Mediterranean, North Atlantic Ocean.

### Genus Cyclasterope G. Brady

This genus is closely related to the genus Asterope and resembles it closely in many respects. However, it differs from Asterope in the arrangement of the claws of the furca. In the present genus there are three or four comparatively short claws followed by a greater number of decidedly smaller, bristlelike structures. Shell height is also much greater than in Asterope and many forms are almost spherical in shape.

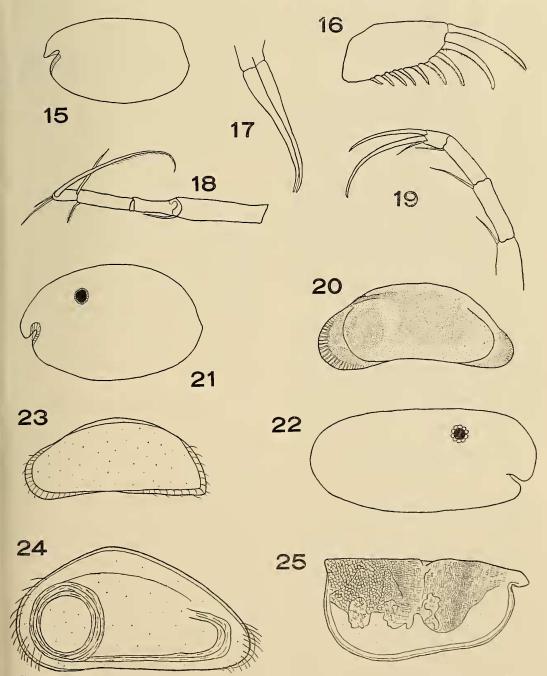
# Cyclasterope priacanthus, n. sp. Figs. 1-3

Specific characters.—Female: Shell broadly oval in outline; height about eight-elevenths length. Ventral border well rounded; dorsal border less rounded with a trace of a corner at the posterior border. Both anterior and posterior extremities well rounded. Eye large and well developed. Muscle markings form a conspicuous rosette in lower center of the shell. On the fifth segment of the anterior antenna there is an

absence of teeth. Furca with four main claws and five smaller ones. Length 2.78 mm.; height 2.04 mm.

Male: Unknown.

Remarks.—The shape of the shell of this species is similar to that of C. brevis (G. W. Müller) but



Figs. 15, 16.—Cypridina flatus, n. sp.: 15, Left valve, female; 16, furca, female. Figs. 17-20.—Macroeypris sehmitti, n. sp.: 17, Furca, female; 18, second leg, female; 19, first leg, female; 2), left valve, female. Fig. 21.—Cypridina squamosa G. W. Müller, left valve, female. Fig. 22.—Asterope mariae (Baird), right valve, female. Fig. 23.—Macroeypris africana G. W. Müller, left valve, female. Fig. 24.—Pontocypris intermedia Brady, left valve, male. Fig. 25.—Conchoccia atlantica (Lubbock), right valve, female.

is not so high or so long as brevis. The shell of the present species also lacks the branched striations.

Occurrence.—One specimen was found in the stomach of *Priacanthus cruentatus*, which was taken in a gill net off Loggerhead Key, June 25, 1931 (no station number). Holotype (slide), U.S.N.M. no. 88848.

## Cyclasterope tripla, n. sp. Figs. 10-11

Specific characters.—Female: Shell somewhat similar to that of *C. americana* (G. W. Müller) but with a decidedly flattened dorsal margin and a somewhat more prominent and deeper frontal incisure. Ventral border very much rounded and practically spherical in outline. Posterior extremity somewhat more broadly rounded than the anterior. Inner margin of the postero-ventral border with a series of short, parallel markings. Eye large and prominent. Muscle markings very prominent. Appendages typical of the genus. Furca with three large claws and five smaller ones. Length 1.96 mm.; height 1.65 mm.

MALE: Unknown.

Occurrence.—Three females were obtained from seaweed taken at low tide from rocks below the lighthouse dock, east side of Loggerhead Key, July 24, 1930 (station 31-30); holotype (slide), U.S.N.M. no. 88842; one female from haul of 30-foot otter trawl in 9-10 fathoms in the southwest channel north of No. 2 Red Buoy, June 26, 1931 (station 12-31).

# Cyclasterope sphaerica, n. sp. Figs. 13-14

Specific characters.—Female: Shape of shell almost spherical; height slightly greater than five-sixths the length. Dorsal and ventral borders both broadly rounded, the ventral being practically spherical in outline. Frontal incisure very small and shallow. Central portion of the shell covered with a series of rosettelike markings, possibly glands. Eye not so large as in the preceding species but well developed. There are no teeth on the fifth segment of the anterior antenna. The terminal flagellae of the anterior antennae are strongly toothed through the greater part of their length. Furca with three large, powerful claws, followed by seven small ones. Length 2.44 mm.; height 2.12 mm.

Male: Unknown.

Remarks.—In general appearance this species resembles *C. americana* (G. W. Müller), but the shell is higher and larger and no prominent markings are figured in Müller's drawing. Müller does not figure the eye, but this is probably an omission.

Occurrence.—One female from haul of 30-foot otter trawl in 10-11 fathoms along the east side of White Shoal, August 9, 1930 (station 49-30), holotype (slide), U.S.N.M. no. 88844; one female from the debris of cracked-up rock from west side of Loggerhead Key, June 26, 1931 (no station number).

# Family CONCHOECIDAE Subfamily Conchoecinae Genus Conchoecia Dana

This genus contains forms which are unmistakably set off from closely allied ostracods by the oblong shape of the body and the almost straight dorsal margin, which is prolonged anteriorly into a beaklike rostral projection. The surface of the shell is without hairs but is usually covered by delicate, curved striations which cross each other at intervals, forming a network. The genus has been found in almost every part of the oceans and comprises nearly one hundred species.

## Conchoecia atlantica (Lubbock) Fig. 25

Halocypris atlantica J. Lubbock, Trans. Ent. Soc. London, n. s., 4: 28. 1856.
Conchoecia cuneata G. W. Müller, Zool. Jahrb. (Abt. Syst.) 5: 271. 1890.
Conchoecia atlantica G. W. Müller, Ergebn. Tiefsee-Exp. 8: 92. 1906.

Specific characters.—Female: Shell very solidly built and small in proportion to the body so that the valves are always found gaping open. Shell is oblong in shape; height about one-half the length of the body. The depth of the shell is noticeably greater in the posterior half of the body than in the anterior. Dorsal border straight with a marginal indentation halfway toward the anterior extremity. Ventral border well rounded posteriorly and tapering toward the front. Posterior border straight and ending in a blunt spine at the postero-dorsal margin. Length 3.58 mm.; height 1.88 mm.

MALE: Shell even more elongate than in the female. Not so much difference in depth of shell in posterior and anterior portions.

Occurrence.—One female was taken from the stomach of a fish caught with 30-foot otter trawl in 80-100 fathoms, about 13 miles south of no. 2 Red Buoy, July 29, 1930 (station 35-30).

Distribution.—Atlantic, Indian, and Pacific Oceans.

#### Suborder Podocopa

#### Family CYPRIDAE

Subfamily Pontocyprinae

#### Genus Pontocypris Sars

Shell of rather thin consistency, of triangular shape. Valves unarmed at the edges but are densely hairy. Eye well developed. Members of this genus are active swimmers as is shown by the well-developed natatory antennae. Posterior antenna has a 3-jointed endopodite. The second leg is equipped with a very heavy, terminal claw. In the male, in many species, the spermatic vessels are carried forward along the ventral side and terminate in a dense spiral coil.

## Pontocypris intermedia G. Brady Fig. 24

Pontocypris intermedia G. S. Brady, Ann. Mag. Nat. Hist., ser. 4, 2: 220. 1868.

Pontocypris intermedia G. O. Sars, Arch. Naturv. Kristian. 12: 267. 1887.

Pontocypris intermedia G. W. Müller, F. Fl. Neapel 21: 254, 1894.

Specific characters.—Female: Shell definitely triangular in shape; height about three-eighths the length; highest one-third the distance from the anterior end. Dorsal border peake-shaped with a definite rounded corner at the highest point. Anterior end broadly rounded, posterior end produced by a sloping dorsal margin to an extremity of less than half the depth of the anterior margin. Ventral border nearly flat with only a slight indentation directly below the dorsal peak. Eye large and prominent. Both extremities covered with long, heavy hairs. Length 0.67 mm.; height 0.25 mm.

Male: Shell shape similar. The spermatic vessels are drawn along the ventral margin toward the anterior end where they terminate in a spiral coil. Length 0.64 mm.; height 0.27 mm.

Occurrence.—Five males from haul of 30-foot otter trawl in 10–11 fathoms in channel east and south of Loggerhead Key, August 8, 1930 (station 47-30).

Distribution.—Mediterranean.

#### Subfamily Macrocyprinae

#### Genus Macrocypris Brady

Shell elongate, tapering toward the posterior end. Consistency of shell very solid, containing much lime. Inner duplicatures of valves rather broad with a striated marginal zone. Dorsal border well rounded; ventral border almost straight. Eye lacking in this genus. First leg terminating with two large claws of unequal length. Second leg with a long backward-directed seta, extended almost to the base of the leg. Caudal furca small and very rudimentary.

# Macrocypris africana G. W. Müller

Fig. 23

Macrocypris africana G. W. Müller, D. Südp. Exp. 10: 97. 1908.

Specific characters.—Female: Shell elongate, height about two-fifths the length, highest point about the middle. Dorsal border strongly arched; ventral border almost straight with a slight curve inward toward the middle. Anterior end somewhat produced and well rounded. Posterior extremity ending in an acuminate corner at the ventroposterior angle. Surface of valves very smooth and polished. Anterior thoracic leg with the shortest claw longer than one half the length of the longer claw. Length 1.22 mm.; height 0.51 mm.

Male: Somewhat smaller than the female but in other respects little different. Furca straighter than in the female.

Occurrence.—Three females from haul of 30-foot otter trawl in 10–11 fathoms in channel east and south of Loggerhead Key, August 8, 1930 (station 47-30).

Distribution.—Originally described from the coast of South Africa.

#### Macrocypris schmitti, n. sp.

Figs. 17-20

Specific characters.—Female: Shell of a dark brown color and of firm consistency. Height about one-half the length. Dorsal margin strongly arched; ventral margin exhibiting a marked concavity in the center and extending through three-fourths of the length. Anterior end somewhat produced and broadly rounded. Posterior end produced in a well-rounded, tapering extremity, with a steep, concave slope descending from the dorsal margin. Inner duplicatures broad with pore canals evident. Shortest claw of anterior thoracic leg equal to one-half the length of the longer claw. Furca symmetrical with end claws short. Length 1.22 mm.; height 0.60 mm.

MALE: Unknown.

Remarks.—This species seems to most closely resemble M. turbida G. W. Müller, as far as shell shape is concerned, but is higher and has a greater concavity in the ventral border. The furcae also differ from those of M. turbida.

Occurrence.—Eight females were taken from debris of cracked-up rock from west side of Loggerhead Key, June 26, 1931 (no station number). Holotype (slide), U.S.N.M. no. 88847.

## Family NESIDEIDAE Genus Nesidea Costa

Short, high forms with strongly arched dorsal border. The dorsal border forms a more or less prominent angle with the anterior border. From the angle the anterior border slopes posteroventrally. Posterior border with a prominent angle at the ventral corner. Ventral border almost straight in the middle with upward sloping extremities. Posterior margin of the anterior thoracic legs with two bristles. Furca with at least five long bristles.

## Nesidea cushmani, n. sp. Figs. 4-8

Specific characters.—Female: Shell typical for the genus with highly arched dorsal border. Height three-fifths the length; highest point in the middle from which the dorsal margin slopes ventralward anteriorly and posteriorly. Anterior end with an upturned corner about midway. From the corner the anterior border slopes backward to the ventral margin. Posterior extremity produced ventrally in a pronounced corner with concave upward-sloping extremity. Surface of shell covered with a profusion of long, heavy hairs. Eye well developed. Appendages typical for the genus. Furca with the shorter claw about one-half the length of the longer. On the posterior

border of the furca are two short and two much longer bristles. A fifth bristle is located at the base of the longer claw.

Male: Unknown.

Occurrence.—One female was obtained from rock fragments brought up with aid of diving hood west side of Loggerhead Key in 12-15 feet of water, July 24, 1930 (Station 30-30); two females from debris of broken-up clump of Porites also brought up from west side of Loggerhead Key with aid of diving hood, from probably the same depth as the preceding, July 26, 1930 (station, 33-30); two females from haul of 30-foot otter trawl in 10-11 fathoms in channel east and south of Loggerhead Key, August 8, 1930 (station 47-30); one female from haul of 30-foot otter trawl in 10-11 fathoms, lower channel east and south of Loggerhead Key, August 9, 1930 (station 48-30); one female from the debris of crackedup rock from west side of Loggerhead Key, June 26, 1931 (no station number), holotype (slide), U.S.N.M. no. 88843.

# Family CYTHERIDAE Subfamily Xestoleberinae Genus Xestoleberis Sars

Shell tumid, narrowed in front, with the ventral face distinctly flattened behind. Valves slightly unequal with a smooth and polished surface. Eyes distinctly separated and well developed. Behind the eyes is a kidney-shaped spot. Antennae rather short, the anterior ones with the terminal part 4-articulate. Posterior antennae without any evident suture of the penultimate joint, the two apical claws stout. Legs rather short and stout. Caudal lamellae with two short bristles on the tip.

# Xestoleberis punctata, n. sp. Fig. 12

Specific characters.—Female: Shell, seen laterally, subtriangular in shape with greatest height slightly behind the middle and approaching seven-elevenths of the length. Dorsal border strongly arched and rounded; ventral border flattened with a slight concavity in anterior half. Both extremities broadly rounded, the posterior more so than the anterior. Prominent pore canals on anterior, ventral, and posterior borders. Pore canals are not bifurcate at the ends. Two distinct eyes with the characteristic kidney-shaped spot behind them. Teeth on hinge promi-

nent. Surface smooth without hairs but covered with a series of large, porelike spots. Internal structure typical of the genus with no exceptional structures. Length 0.54 mm.; height 0.35 mm.; width 0.28 mm.

Male: Unknown.

Occurrence.—One female from the debris of cracked-up rock from the west side of Loggerhead Key, June 26, 1931 (no station number). Holotype (slide), U. S. N. M. no. 88847.

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## PROCEEDINGS OF THE ACADEMY

429th Meeting of Board of Managers

The 429th meeting of the Board of Managers, held in the Cosmos Club, June 13, 1949, was called to order at 8:15 p.m. by the President, F. H. H. ROBERTS, JR. Present were: F. B. SILSBEE, H. S. RAPPLEYE, N. R. SMITH, W. W. DIEHL, F. M. DEFANDORF, W. F. FOSHAG, C. L. GAZIN, F. E. JOHNSTON, F. A. WEISS, S. A. DAYTON, R. S. DILL, MARGARET PITTMAN, and F. M. SETZLER.

The minutes of the 428th meeting were read and approved.

The President announced that Dr. C. J. Connolly had been appointed on the Committee on Grants-in-Aid for Research, to fill the vacancy caused by the death of Dr. John M. Cooper.

The President read a motion approved by the Executive Committee at its meeting held on June 13, 1949, and recommended it to the Board of Managers. The Board approved the recommendation submitted by the Executive Committee, namely, to instruct the Custodian and Subscription Manager to sign the necessary agreement for storage with Waverly Press, Inc. In collaboration with the Treasurer, the Custodian and Subscription Manager is to work out a plan whereby a proper proportion of existing stock and a suitable average for each issue as it appears be forwarded to the Custodian and Subscription Manager for storage; at the end of each calendar year the stock remaining with Waverly

Press, Inc., to be shipped to Washington for storage.

The Secretary read a letter from J. E. Graf, Chairman of the Committee on Policy and Planning, transmitting a report of the Committee and suggesting that discussion of it be deferred until a later meeting of the Board when a full membership could be present. Mimeographed copies of the report were distributed to the members of the Board present, and the Secretary was instructed to send copies also to the members who were not present.

The Secretary announced the following deaths: Alfred P. Dachnowski-Stokes, botanist, formerly with the Department of Agriculture, on May 17, 1949 (elected November 3, 1926); John M. Cooper, anthropologist, Catholic University of America, on May 22, 1949 (elected February 26, 1940).

In the absence of the Custodian and Subscription Manager, it was announced that a complete set of the Journal had been sold to the Library of the Communicable Disease Center, in Georgia, a branch of the U. S. Public Health Service, for \$326.

The President reported on the matter of the Science Calendar. He had conferred with James Fulton Fox, President of the D. C. Council of Engineering and Architectural Societies. After some discussion the Board voted that the Academy continue to cooperate with the D. C. Council of Engineering and Architectural Societies to carry on the Science Calendar and that